

Collaborations within the DK

P. Macheroux, B. Nidetzky

The expertise of these groups in enzyme kinetics and enzyme mechanisms will provide the Wiltschi group with the necessary know-how for the biochemical characterization of the synthetic enzyme variants.

K. Gruber

The Gruber group's expertise in molecular modeling and structural biology will be invaluable for both proposed PhD projects. It is especially important for the modeling of synthetic enzymes for structure-function predictions and for elucidation of their 3D structures.

K. Faber, R. Breinbauer, W. Kroutil

The expertise of these groups in biocatalysis, organic synthesis and analytics will be extremely helpful for the analysis of the synthetic enzymes and their reaction mechanisms. This will be especially important for the validation of the catalytic promiscuity.

R. Birner-Grünberger (Non-DK, MedUni Graz)

This group's expertise in protein mass spectrometry has been indispensable for the validation of ncAA incorporation in synthetic proteins as reflected by the continuing cooperation with the Wiltschi group. They have established mass analysis protocols specifically for the assessment of the efficiency of ncAA incorporation in intact proteins.

Collaborating research groups where PhD Students could perform their research stay abroad

Nicholas Turner

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N. Turner is a leading expert in biocatalysis using various enzymes.